Author Index—Volume 36

A

Achten, E.: *see* Sijens, P. E.
Adam, G.: *see* Haage, P.
Adams, M. D. *see* Wible, J. H., Jr.
Adams, M. D.: *see* Ni, Y.
Adzamli, K.: *see* Ni, Y.
Albert, A.: *see* Szapiro, D.
Alfke, H.: *see* Wagner, H.-J.
Allder, S. J.: *see* Martel, A. L.
Allkemper, T.: *see* Maintz, D.
Altan, S. K.: *see* Karadeniz, Y. M.
Altinok, D.: *see* Karadeniz, Y. M.
Alvino, S.: *see* Lorusso, V.
Anastasia-Rubino, L.: *see* Tello, R.
Armstrong, M. R.: *see* Runge, V. M.
Aronen, H. J.: *see* Markkola, A. T.

B

Bach-Gansmo, T.: *see* Dupas, B.
Bakhsheshi, H.: *see* Lu, B.; Mao, S.
Balédent, O., Henry-Feugeas, M.-C. C., Idy-Peretti, I.: Cerebrospinal fluid dynamics and relation with blood flow: A magnetic resonance study with semiautomated cerebrospinal fluid segmentation, 368
Baledent, O.: *see* Henry-Feugeas, M.-C.
Barco, S. J.: *see* Wible, J. H., Jr.
Bares, R.: *see* Tepe, G.
Barr, R. G.: *see* Runge, V. M.
Bashir, A.: *see* Gillis, A.
Baumbach, A.: *see* Tepe, G.
Becker, M.: *see* Sayegh, Y.
Behrenbeck, T.: *see* Gerber, T. C.
Belguise-Valladier, P.: *see* Lewin, M.
Benderbous, S.: *see* Idée, J.-M.
Berger, B. L.: *see* Runge, V. M.
Berthezene, Y.: *see* Wiart, M.
Bewig, B.: *see* Müller-Hülsbeck, S.
Bigler, E. D., Tate, D. F.: Brain volume, intracranial volume, and dementia, 539
Bittoun, J.: *see* Henry-Feugeas, M.-C.
Boehm, T., Hochmuth, A., Malich, A., Reichenbach, J. R., Fleck, M., Kaiser, W. A.: Contrast-enhanced near-infrared laser mammography with a prototype breast scanner: Feasibility study with tissue phantoms and preliminary results of imaging experimental tumors, 573
Boehm, T., Malich, A., Reichenbach, J. R., Fleck, M., Kaiser, W. A.: Percutaneous radiofrequency (RF) thermal ablation of rabbit tumors embedded in fat: A model for RF ablation of breast tumors, 480
Bohnemann, L.: *see* Rauch, D.
Bohning, D. E., Lomarev, M. P., Denslow, S., Nahas, Z., Shastri, A., George, M. S.: Feasibility of vagus nerve stimulation-synchronized blood oxygenation level-dependent functional MRI, 470
Bokor, D., Chambers, J. B., Rees, P. J., Mant, T. G. K., Luzzani, F., Spinazzi, A.: Clinical safety of SonoVue®, a new contrast agent for ultrasound imaging, in healthy volunteers and in patients with chronic obstructive pulmonary disease, 104
Bonneau, M.: *see* Pelage, J.-P.
Bonnemain, B.: *see* Dupas, B.
Bonnemain, B.: *see* Idée, J.-M.
Bonnemain, B.: *see* Port, M.
Boulanger, Y.: *see* Labelle, M.
Bourbouze, R.: *see* Idée, J.-M.
Bourrinet, P.: *see* Idée, J.-M.
Brehme, U.: *see* Tepe, G.
Brekenfeld, C., Foert, E., Hundt, W., Kenn, W., Lodeann, K.-P., Gehl, H.-B.: Enhancement of cerebral diseases: How much contrast agent is enough? Comparison of 0.1, 0.2, and 0.3 mmol/kg gadoteridol at 0.2 T with 0.1 mmol/kg gadoteridol at 1.5 T, 266
Bremer, C., Kreft, G., Roggan, A., Filler, T., Reimer, P.: Ex vivo evaluation of novel miniaturized laser-induced interstitial thermotherapy applicators for effective small-volume tissue ablation, 327
Breteler, M. M. B.: *see* Sijens, P. E.
Brossmann, J.: *see* Ertl-Wagner, B. B.
Brossmann, J.: *see* Müller-Hülsbeck, S.
Budoff, M. J.: *see* Lu, B.; Mao, S.
Buecker, A.: *see* Meyer, J. M. A.
Burger, H.: *see* Meiners, L. C.
Burstein, D.: *see* Gillis, A.
Busch, M.: *see* Kivelitz, D.
Bush, H. L., Jr.: *see* Wang, Y.
Bush, H. L., Jr.: *see* Weckesell, M. B.
Butz, B.: *see* Strotzer, M.

C

Canet, E.: *see* Wiart, M.
Casparie, H. W. B. M.: *see* Van Heesewijk, H. P. M.
Chambers, J. B.: *see* Bokor, D.
Chang, K. H.: *see* Kim, H. J.
Chaoui, A.: *see* Tello, R.
Chavez, H. A.: *see* Toney, G. M.
Chenevert, T. L.: *see* Schoenberg, S. O.
Cho, B. M.: *see* Kim, H. J.
Choi, B. I.: *see* Kim, A. Y.
Choi, D.: *see* Kwak, B. K.
Christian, P. E.: *see* Di Bella, E. V. R.
Chung, J. W.: *see* Kwak, B. K.
Claussen, C. D.: *see* Tepe, G.
Clément, O.: *see* Lewin, M.
Colosimo, C., Ruscalleda, J., Korves, M., La Ferla, R., Wool, C., Pianezzola, P., Kirchin, M. A. : Detection of intracranial metastases: A multicenter, intrapatient comparison of gadobenate dimeglumine-enhanced MRI with rountinely used contrast agents at equal dosage, 72
Copoix, F.: *see* Laurent, S.
Cornu, P.: *see* Henry-Feugeas, M.-C.
Corot, C.: *see* D'Anglemont De Tassigny; Idée, J.-M.; Port, M.; Wiart, M.
Cresens, E.: *see* Ni, Y.
Cuénod, C.-A.: *see* Lewin, M.
Czervionke, L. F.: *see* Runge, V. M.

D

Damilakis, J.: *see* Perisinakis, K.
D'Anglemont De Tassigny, A., Idée, J.-M., Corot, C.: Comparative effects of ionic and nonionic iodinated low-osmolar contrast media on platelet function with the PFA-100® (platelet function analyzer), 276
Davies, A.: *see* Katayama, H.
De Baere, T.: *see* Lassau, N.
DeCarvalho, V. L.: *see* Tello, R.
De Groot, J. C.: *see* Sijens, P. E.
De Kort, G. A. P.: *see* Meiners, L. C.
Delay, G. S.: *see* Martel, A. L.
De Leeuw, F. E.: *see* Sijens, P. E.
Dencausse, A.: *see* Idée, J.-M.
Dencausse, A.: *see* Port, M.
Den Heijer, T.: *see* Sijens, P. E.
Denslow, S.: *see* Bohning, D. E.
De Ree, J.: *see* Stolk, J.
Deurloo, E. E., Gilhuijs, K. G. A., Kool, L. J. S., Muller, S. H.: Displacement of breast tissue and needle deviations during stereotactic procedures, 347
De Valois, J. C.: *see* Van Heesewijk, H. P. M.
Devoldere, L.: *see* Idée, J.-M.
Di Bella, E. V. R., Ross, S. G., Kadrmas, D. J., Khare, H. S., Christian, P. E., McJames, S., Gullberg, G. T.: Compartmental modeling of technetium-99m-labeled teboroxime with dynamic single-photon emission computed tomography: Comparison with static thallium-201 in a canine model, 178
Dinkelborg, L. M.: *see* Tepe, G.
Dirksen, A.: *see* Stolk, J.
Döhmen, S.: *see* Haage, P.
Dondelinger, R. F.: *see* Szapiro, D.
Drescher, P.: *see* Rauch, D.
Duarte, C. G., Zhang, J., Ellis, S.: Review of studies establishing the aging male spontaneously hypertensive rat as a detector and quantifier of the kidney toxcity of radioconstrast media and other chemicals, 56
Duda, S. H.: *see* Tepe, G.
Dupas, B., Pradal, G., Muller, R. N., Bonnemain, B., Meflah, K., Bach-Gansmo, T.: Hepatocyte-mediated transport to the bile of AMI-HS, a particulate contrast agent, 509
Durocher, A.: *see* Labelle, M.

E

Eberle, B.: *see* Kauczor, H.-U.
Ellis, S.: *see* Duarte, C. G.
Ennker, J.: *see* Winterer, J. T.
Eracleous, E.: *see* Papanikolaou, N.
Ertl-Wagner, B. B., Stäbler, A., Brossmann, J., Trudell, D., Resnick, D.: Assessment of the position of the distal portion of the ulna in lateral projection radiographs of the wrist: Analysis of the influence of pronation-supination and flexion-extension on the pisoscaphoid and the ulnotriquetral distances: A cadaver study, 612
Even-Sapir, E.: *see* Metser, U.

F

Felix, R.: *see* Stroszczynski, C.
Fenlon, H.: *see* Tello, R.
Feuerbach, S.: *see* Seitz, J.
Feuerbach, S.: *see* Strotzer, M.
Filler, T.: *see* Bremer, C.
Fischbach, R.: *see* Maintz, D.
Fleck, M.: *see* Boehm, T.
Flohr, T.: *see* Wildberger, J. E.
Foert, E.: *see* Brekenfeld, C.
Fouillet, X.: *see* Katayama, H.
Fouillet, X.: *see* Sayegh, Y.
Friedman, Z.: *see* Metser, U.
Frigeni, V., Miragoli, L., Grotti, A., Lorusso, V.: Comparative study between gadobenate dimeglumine gadobutrol in rats with brain ischemia, 561
Frigeni, V., Miragoli, L., Grotti, A., Lorusso, V.: Neurotolerability of contrast agents in rats with brain ischemia induced by transient middle cerebral artery occlusion: EEG evaluation, 1
Frija, G.: *see* Lewin, M.
Frokiaer, J.: *see* Rawashdeh, Y. F.
Furuta, W.: *see* Tominaga, K.

G

Galen, K. P.: *see* Wible, J. H., Jr.
Gaschen, L., Schuurman, H.-J.: Contribution of power Doppler sonography to the detection of renal allograft rejection in the Cynomolgus monkey, 335
Gehl, H.-B.: *see* Brekenfeld, C.
George, M. S.: *see* Bohning, D. E.
Gerber, T. C., Schmermund, A., Reed, J. E., Rumberger, J. A., Sheedy, P. F., Gibbons, R. J., Holmes, D. R., Behrenbeck, T.: Use of a new myocardial centroid for measurement of regional myocardial dysfunction by electron beam computed tomography: Comparison with technetium-99m sestamibi infarct size quantification, 193
Gérvas, J. J.: *see* Rico, H.
Ghaye, B.: *see* Szapiro, D.
Gibbons, R. J.: *see* Gerber, T. C.
Giesel, F. L.: *see* Knopp, M. V.
Gilhuijs, K. G. A.: *see* Deurloo, E. E.
Gillis, A., Bashir, A., McKeon, B., Scheller, A., Gray, M. L., Burstein, D.: Magnetic resonance imaging of relative glycosaminoglycan distribution in patients with autologous chondrocyte transplants, 743
Glowinski, A.: *see* Haage, P.
Gogas, C.: *see* Papanikolaou, N.
Gonzalez, C. F.: *see* Runge, V. M.
Gourtsoyiannis, N.: *see* Papanikolaou, N.
Gourtsoyiannis, N.: *see* Perisinakis, K.
Graif, M.: *see* Metser, U.
Gray, M. L.: *see* Gillis, A.
Grimm, J.: *see* Müller-Hülsbeck, S.
Grimm, J., Müller-Hülsbeck, S., Heller, M.: Comparison of the mechanical thrombectomy efficacy of the Amplatz thrombectomy device and the Cragg thrombolytic brush in vitro, 204
Grossmann, T.: *see* Kauczor, H.-U.
Grotti, A.: *see* Frigeni, V.
Guenther, R. W.: *see* Meyer, J. M. A.
Gullberg, G. T.: *see* Di Bella, E. V. R.
Güney, S.: *see* Karadeniz, Y. M.
Günther, R. W.: *see* Haage, P.
Günther, R. W.: *see* Meyer, J. M. A.
Günther, R. W.: *see* Wildberger, J. E.

H

Haage, P.: *see* Wildberger, J. E.
Haage, P., Adam, G., Karaagac, S., Pfeffer, J., Glowinski, A., Döhmen, S., Günther, R. W.: Mechanical delivery of aerosolized gadolinium-DTPA for pulmonary ventilation assessment in MR imaging, 240
Halford, H. H.: *see* Runge, V. M.
Hamm, B.: *see* Kivelitz, D.
Hamm, B.: *see* Krause, W.
Han, J. K.: *see* Kim, A. Y.
Hanisch, G.: *see* Kauczor, H.-U.
Hanke, B.: *see* Krause, W.
Hanke, H.: *see* Tepe, G.
Hansel, J.: *see* Kivelitz, D.
Hatakenaka, M., Ueda, M., Ishigami, K., Otsuka, M., Masuda, K.: Effects of aging on muscle T2 relaxation time: Difference between fast- and slow-twitch muscles, 692
Heijboer, R. J. J.: *see* Sijens, P. E.
Heindel, W.: *see* Maintz, D.
Heindel, W.: *see* Vieth, V.
Heller, M.: *see* Grimm, J.
Heller, M.: *see* Müller-Hülsbeck, S.
Heneine, N.: *see* Katayama, H.
Henry-Feugeas, M.-C. C.: *see* Balédent, O.
Henry-Feugeas, M.-C., Idy-Peretti, I., Baledent, O., Cornu, P., Lejay, H., Bittoun, J., Schouman-Claeys, E.: Cerebrospinal fluid flow waveforms: MR analysis in chronic adult hydrocephalus, 146
Hernández, E. R.: *see* Rico, H.
Heussel, C. P.: *see* Kauczor, H.-U.
Hilgers, R.-D.: *see* Meyer, J. M. A.
Hirohashi, S.: *see* Kuwatsuru, R.
Hochmuth, A.: *see* Boehm, T.
Hofman, A.: *see* Sijens, P. E.
Holmes, D. R.: *see* Gerber, T. C.
Hørlyck, A.: *see* Rawashdeh, Y. F.
Hosten, N.: *see* Stroszczynski, C.
Huetten, M.: *see* Meyer, J. M. A.
Hundt, W.: *see* Brekenfeld, C.
Hutsebaut, J.: *see* Stolk, J.
Hyacinthe, R.: *see* Sayegh, Y.
Hymphrey, M.: *see* Tello, R.
Hynes, M. R.: *see* Wible, J. H., Jr.

I

Ibarra, R.: *see* Toney, G. M.
Idee, J.-M.: *see* Port, M.
Idée, J.-M.: *see* D'Anglemont De Tassigny
Idée, J.-M., Port, M., Robert, P., Raynal, I., Prigent, P., Dencausse, A., Le Greneur, S., Tichkowsky, I., Le Lem, G., Bourrinet, P., Mugel, T., Benderbous, S., Devoldere, L., Bourbouze, R., Meyer, D., Bonnemain, B., Corot, C.: Preclinical profile of the monodisperse iodinated macromolecular blood pool agent P743, 41
Idy-Peretti, I.: *see* Balédent, O.
Idy-Peretti, I.: *see* Henry-Feugeas, M.-C.
Imazu, M.: *see* Tadehara, F.
Ishigami, K.: *see* Hatakenaka, M.

J

Jahnke, T.: *see* Müller-Hülsbeck, S.
Jeon, G. R.: *see* Kim, H. J.
Jinkins, J. R.: *see* Toney, G. M.
Juergens, K.-U.: *see* Maintz, D.

K

Kadoya, M.: *see* Kuwatsuru, R.
Kadrmas, D. J.: *see* Di Bella, E. V. R.
Kaiser, W. A.: *see* Boehm, T.
Kalinowski, M.: *see* Wagner, H.-J.
Kalinowski, M.: *see* Tepe, G.
Kamenz, J.: *see* Tepe, G.
Kanal, E.: *see* Runge, V. M.
Karaagac, S.: *see* Haage, P.
Karadeniz, Y. M., Kiliç, D., Altan, S. K., Altinok, D., Güney, Ş.: Evaluation of the role of ultrasound machines as a source of nosocomial and cross-infection, 554
Kataoka, Y.: *see* Tominaga, K.
Katayama, H.: *see* Kuwatsuru, R.
Katayama, H., Heneine, N., Van Gessel, R., Taroni, P., Spinazzi, A.: Clinical experience with iomeprol in myelography and myelo-CT: Clinical pharmacology and double-blind comparisons with iopamidol, iohexol, and iotrolan, 22
Katayama, H., Spinazzi, A., Fouillet, X., Kirchin, M. A., Taroni, P., Davies, A.: Iomeprol: Current and future profile of a radiocontrast agent, 87
Kauczor, H.-U., Markstaller, K., Puderbach, M., Lill, J., Eberle, B., Hanisch, G., Grossmann, T., Heussel, C. P., Schreiber, W., Thelen, M.: Volumetry of ventilated airspaces by ^{3}He MRI: Preliminary results, 110
Kaufmann, J.: *see* Krause, W.
Kenn, W.: *see* Brekenfeld, C.
Kent, K. C.: *see* Wang, Y.
Kent, K. C.: *see* Wecksell, M. B.
Kessler, A.: *see* Metser, U.
Khare, H. S.: *see* Di Bella, E. V. R.
Khiat, A.: *see* Labelle, M.
Kiliç, D.: *see* Karadeniz, Y. M.
Kim, A. Y., Choi, B. I., Kim, T. K., Kim, K. W., Lee, J. Y., Han, J. K.: Comparison of contrast-enhanced fundamental imaging, second-harmonic imaging, and pulse-inversion harmonic imaging, 582
Kim, H. J., Lee, C. H., Lee, S. H., Cho, E. M., Kim, H. K., Park, B. R., Ye, S. Y., Jeon, G. R., Chang, K. H.: Early development of vasogenic edema in experimental cerebral fat embolism in cats: Correlation with MRI and electron microscopic findings, 460
Kim, H. K.: *see* Kim, H. J.
Kim, K. W.: *see* Kim, A. Y.
Kim, S. A.: *see* Kwak, B. K.
Kim, T. K.: *see* Kim, A. Y.
Kirchin, M. A.: *see* Colosimo, C.; Katayama, H.
Kivelitz, D., Wagner, S., Hansel, J., Schnorr, J., Wetzler, R., Busch, M., Melzer, A., Taupitz, M., Hamm, B.: The active magnetic resonance imaging stent (AMRIS): Initial experimental in vivo results with locally amplified MR angiography and flow measurements, 625
Kleb, B.: *see* Rauch, D.
Klose, K.-J.: *see* Rauch, D.
Klose, K.-J.: *see* Wagner, H.-J.
Knilnani, N. M.: *see* Wang, Y.
Knopp, M. V., Giesel, F. L., Radeleff, J., Von Tengg-Kobligk, H.: Bile-tagged 3D magnetic resonance colonography after exclusive intravenous administration of gadobenate dimeglumine, a contrast agent with partial hepatobiliary excretion, 619
Ko, Y. T.: *see* Seo, T.-S.
Kono, S.: *see* Tadehara, F.
Kontogiannis, E.: *see* Perisinakis, K.
Kool, L. J. S.: *see* Deurloo, E. E.
Korves, M.: *see* Colosimo, C.
Koscielny, S.: *see* Lassau, N.
Kramann, B.: *see* Uder, M.
Krause, W., Mahler, M., Hanke, B., Milius, W., Kaufmann, J., Rogalla, P., Hamm, B.: Dy-EOB-DTPA: Tolerance and pharmacokinetics in healthy volunteers and preliminary liver imaging in patients, 431
Kreft, G.: *see* Bremer, C.
Krombach, G.: *see* Meyer, J. M. A.
Kugel, H.: *see* Maintz, D.
Kuhn, M. J.: *see* Runge, V. M.
Kurtz, C.: *see* Rauch, D.
Kuwatsuru, R., Kadoya, M., Ohtomo, K., Tanimoto, A., Hirohashi, S., Murakami, T., Tanaka, Y., Yoshikawa, K., Katayama, H.: Comparison of gadobenate dimeglumine with gadopentetate dimeglumine for magnetic resonance imaging of liver tumors, 632
Kwak, B. K., Shim, H. J., Park, E. S., Kim, S. A., Choi, D., Lim, H. K., Park, C. K., Chung, J. W., Park, J. H.: Hepatocellular carcinoma: Correlation between vascular endothelial growth factor level and degree of enhancement by multiphase contrast-enhanced computed tomography, 487

L

Labelle, M., Khiat, A., Durocher, A., Boulanger, Y.: Comparison of metabolite levels and water diffusion between cortical and subcortical strokes as monitored by MRI and MRS, 155

La Ferla, R.: *see* Colosimo, C.
Lancelot, E.: *see* Port, M.
Landwehr, P.: *see* Maintz, D.
Langer, M.: *see* Winterer, J. T.
Lassau, N., Koscielny, S., Opolon, P., De Baere, T., Peronneau, P., Leclere, J., Roche, A.: Evaluation of constrast-enhanced color doppler ultrasound for the quantification of angiogenesis in vivo, 50
Laubenberger, J.: *see* Winterer, J. T.
Laurent, A.: *see* Pelage, J.-P.
Laurent, S., Vander Elst, L., Copoix, F., Muller, R. N.: Stability of MRI paramagnetic contrast media: A proton relaxometric protocol for transmetallation assessment, 115
Lautrou, J.: *see* Port, M.
Lazeyras, F.: *see* Sayegh, Y.
Leclere, J.: *see* Lassau, N.
Lee, C. H.: *see* Kim, H. J.
Lee, D. H.: *see* Seo, T.-S.
Lee, H. M.: *see* Wang, Y.
Lee, J. Y.: *see* Kim, A. Y.
Lee, S. H.: *see* Kim, H. J.
Le Greneur, S.: *see* Idée, J.-M.
Leike, J. U., Sachse, A., Rupp, K.: Characterization of continuously extruded iopromide-carrying liposomes for computed tomography blood-pool imaging, 303
Lejay, H.: *see* Henry-Feugeas, M.-C.
Le Lem, G.: *see* Idée, J.-M.
Lenhart, M.: *see* Seitz, J.
Lenhart, M.: *see* Strotzer, M.
Levin, J. M.: *see* Runge, V. M.
Lewin, M., Clément, O., Belguise-Valladier, P., Tran, L., Cuénod, C.-A., Siauve, N., Frija, G.: Hepatocyte targeting with Gd-EOB-DTPA: Potential application for gene therapy, 9
Licato, P.: *see* Schoenberg, S. O.
Lill, J.: *see* Kauczor, H.-U.
Lim, H. K.: *see* Kwak, B. K.
Link, T. M.: *see* Vieth, V.
Liu, S. C. K. *see* Mao, S.
Liu, S. C. K.: *see* Lu, B.
Lodeann, K.-P.: *see* Brekenfeld, C.
Lomarev, M. P.: *see* Bohning, D. E.
Londy, F. J.: *see* Schoenberg, S. O.
Lorusso, V.: *see* Frigeni, V.
Lorusso, V., Taroni, P., Alvino, S., Spinazzi, A.: Pharmacokinetics and safety of iomeprol in healthy volunteers and in patients with renal impairment or end-stage renal disease requiring hemodialysis, 309
Lotter, A:. *see* Vieth, V.
Low, R. N.: *see* Runge, V. M.
Lu, B., Mao, S.-S., Zhuang, N., Bakhsheshi, H., Yamamoto, H., Takasu, J., Liu, S. C. K., Budoff, M. J.: Coronary artery motion during the cardiac cycle and optimal ECG triggering for coronary artery imaging, 250
Lukkarinen, S.: *see* Markkola, A. T.
Luzzani, F.: *see* Bokor, D.

M

MacDonald, J. R.: *see* Wible, J. H., Jr.
Mahler, M.: *see* Krause, W.
Mahnken, A. H.: *see* Wildberger, J. E.
Maintz, D., Fischbach, R., Juergens, K.-U., Allkemper, T., Wessling, J., Heindel, W.: Multislice CT angiography of the iliac arteries in the presence of various stents: In vitro evaluation of artifacts and lumen visibility, 699
Maintz, D., Kugel, H., Schellhammer, F., Landwehr, P.: In vitro evaluation of intravascular stent artifacts in three-dimensional MR angiography, 218
Majumdar, S.: *see* Vieth, V.
Malich, A.: *see* Boehm, T.
Manke, C.: *see* Strotzer, M.
Mant, T. G. K.: *see* Bokor, D.
Mao, S., Budoff, M. J., Bakhsheshi, H., Liu, S. C. K.: Improved reproducibility of coronary artery calcium scoring by electron beam tomography with a new electrocardiographic trigger method, 363
Mao, S.-S.: *see* Lu, B.
Marchal, G.: *see* Ni, Y.
Maris, T.: *see* Papanikolaou, N.
Markkola, A. T., Aronen, H. J., Lukkarinen, S., Ramadan, U. A., Tanttu, J. I., Sepponen, R. E.: Multiple-slice spin lock imaging of head and neck tumors at 0.1 tesla: Exploring appropriate imaging parameters with reference to T2-weighted spin-echo technique, 531
Markstaller, K.: *see* Kauczor, H.-U.
Martel, A. L., Allder, S. J., Delay, G. S., Morgan, P. S., Moody, A. R.: Perfusion MRI of infarcted and noninfarcted brain tissue in stroke: A comparison of conventional hemodynamic imaging and factor analysis of dynamic studies, 378
Masuda, K.: *see* Hatakenaka, M.
Mathieu, J.: *see* Stolk, J.
Matsunaga, N.: *see* Suga, K.
McJames, S.: *see* Di Bella, E. V. R.
McKeon, B.: *see* Gillis, A.
Meflah, K.: *see* Dupas, B.
Meiners, L. C., Scheffers, J. M., De Kort, G. A. P., Burger, H., Van Huffelen, A. C., Van Rijen, P. C., Van Veelen, C. W. M.: Curved reconstructions *versus* three-dimensional surface rendering in the demonstration of cortical lesions in patients with extratemporal epilepsy, 225
Melzer, A.: *see* Kivelitz, D.
Merland, J.-J.: *see* Pelage, J.-P.
Meszer, U., Friedman, Z., Even-Sapir, E., Samuels, D., Kessler, A., Graif, M.: Renal multigated spectral doppler imaging before and after captopril challenge, 234
Meyer, D.: *see* Idée, J.-M.
Meyer, D.: *see* Port, M.
Meyer, J. M. A., Buecker, A., Spuentrup, E., Schuermann, K., Huetten, M., Hilgers, R.-D., Van Vaals, J. J., Guenther, R. W.: Improved in-stent magnetic resonance angiography with high flip angle excitation: Technical note, 677
Meyer, J. M. A., Schmitz-Rode, T., Krombach, G., Wildberger, J. E., Pfeffer, J., Günther, R. W.: Navi-ball: A new guidance device for CT-directed punctures, 299
Miao, Y.: *see* Ni, Y.
Mikawa, M.: *see* Suga, K.
Milius, W.: *see* Krause, W.
Miragoli, L.: *see* Frigeni, V.
Moesta, K. T.: *see* Stroszczynski, C.
Moody, A. R.: *see* Martel, A. L.
Morgan, P. S.: *see* Martel, A. L.
Morrison, W. B.: *see* Weishaupt, D.
Mortensen, J.: *see* Rawashdeh, Y. F.
Mugel, T.: *see* Idée, J.-M.
Muller, R. N.: *see* Dupas, B.
Muller, R. N.: *see* Laurent, S.
Muller, S. H. *see* Deurloo, E. E.
Müller-Hülsbeck, S.: *see* Grimm, J.
Müller-Hülsbeck, S., Brossmann, J., Jahnke, T., Grimm, J., Reuter, M., Bewig, B., Heller, M.: Mechanical thrombectomy of major and massive pulmonary embolism with use of the Amplatz thrombectomy device, 317
Murakami, T.: *see* Kuwatsuru, R.

N

Nagel, S.: *see* Stroszczynski, C.
Nahas, Z.: *see* Bohning, D. E.
Natale, P. M.: *see* Weishaupt, D.
Nazarian, L. N.: *see* Weishaupt, D.
Newitt, D.: *see* Vieth, V.
Ni, Y., Adzamli, K., Miao, Y., Cresens, E., Yu, J., Periasamy, M. P., Adams, M. D., Marchal, G.: MRI contrast enhancement of necrosis by MP-2269 and Gadophrin-2 in a rat model of liver infarction, 97
Niizeki, M.: *see* Tominaga, K.
Nitz, W. R.: *see* Seitz, J.
Nosher, J. L.: *see* Snowhill, P. B.

O

Oettle, H.: *see* Stroszczynski, C.
Ogasawara, N.: *see* Suga, K.
Ogasaware, N.: *see* Suga, K.
Oh, J. H.: *see* Seo, T.-S.
Ohtomo, K.: *see* Kuwatsuru, R.
Oishi, R.: *see* Tominaga, K.
Okazaki, H.: *see* Suga, K.
Opolon, P.: *see* Lassau, N.
Otsuka, M.: *see* Hatakenaka, M.
Oudkerk, M.: *see* Sijens, P. E.

P

Páez, E.: *see* Rico, H.
Pahl, M. B.: *see* Uder, M.
Papanikolaou, N., Prassopoulos, P., Eracleous, E., Maris, T., Gogas, C., Gourtsoyiannis, N.: Contrast-enhanced magnetic resonance cholangiography *versus* heavily T2-weighted magnetic resonance cholangiography, 682
Park, B. R.: *see* Kim, H. J.
Park, C. K.: *see* Kwak, B. K.
Park, E. S.: *see* Kwak, B. K.
Park, J. H.: *see* Kwak, B. K.
Pelage, J.-P., Laurent, A., Bonneau, M., Wassef, M., Rymer, R., Merland, J.-J.: Arterial blood supply to the uterus in nonpregnant sheep: A pertinent model for clinical practice?, 721
Periasamy, M. P.: *see* Ni, Y.
Periasamy, M. P.: *see* Wible, J. H., Jr.
Perisinakis, K., Damilakis, J., Kontogiannis, E., Gourtsoyiannis, N.: Film-screen magnification *versus* electronic magnification and enhancement of digitized contact mammograms in the assessment of subtle microcalcifications, 726
Peronneau, P.: *see* Lassau, N.
Persigehl, T.: *see* Vieth, V.
Pfeffer, J.: *see* Haage, P.
Pfeffer, J.: *see* Meyer, J. M. A.
Pianezzola, P.: *see* Colosimo, C.
Pochon, S.: *see* Sayegh, Y.
Port, M.: *see* Idée, J.-M.
Port, M., Corot, C., Raynal, I., Idee, J.-M., Dencausse, A., Lancelot, E., Meyer, D., Bonnemain, B., Lautrou, J.: Physicochemical and biological evaluation of P792, a rapid-clearance blood-pool agent for magnetic resonance imaging, 445
Pradal, G.: *see* Dupas, B.
Prassopoulos, P.: *see* Papanikolaou, N.
Prigent, P.: *see* Idée, J.-M.
Prince, M. R.: *see* Wang, Y.
Prince, M.R.: *see* Weckesell, M. B.
Puderbach, M.: *see* Kauczor, H.-U.
Puls, R.: *see* Stroszczynski, C.

R

Radeleff, J.: *see* Knopp, M. V.
Ramadan, U. A.: *see* Markkola, A. T.
Rauch, D., Bohnemann, L., Kurtz, C., Drescher, P., Kleb, B., Klose, K.-J., Wagner, H. J.: Vascular response to gadolinium-containing contrast media in an ex vivo rabbit arterial model, 589
Rawashdeh, Y. F., Hørlyck, A., Mortensen, J., Frokiaer, J.: Short- and long-term repeatability of intrarenal resistive index in the pig, 341
Rawool, N. M.: *see* Weishaupt, D.
Raynal, I.: *see* Idée, J.-M.; Port, M.
Reed, J. E.: *see* Gerber, T. C.
Rees, P. J.: *see* Bokor, D.
Reiber, J. H. C.: *see* Stolk, J.
Reichenbach, J. R.: *see* Boehm, T.
Reimer, P.: *see* Bremer, C.
Resnick, D.: *see* Ertl-Wagner, B. B.
Reuter, M.: *see* Müller-Hülsbeck, S.
Rico, H., Hernández, E. R., Páez, E., Seco, C., Gérvas, J. J., Villa, L. F.: Do ultrasound measurements reflect bone microarchitecture rather than bone mass? An in vitro study of the rat femur with the use of ultrasound, densitometry, and histomorphometry, 323
Robert, P.: *see* Idée, J.-M.
Roche, A.: *see* Lassau, N.
Rogalla, P.: *see* Krause, W.
Roggan, A.: *see* Bremer, C.
Rosendahl, U.: *see* Winterer, J. T.
Ross, S. G.: *see* Di Bella, E. V. R.
Rumberger, J. A.: *see* Gerber, T. C.
Runge, V. M.: A review of contrast media research in 1999–2000, 123
Runge, V. M., Armstrong, M. R., Barr, R. G., Berger, B. L., Czervionke, L. F., Gonzalez, C. F., Halford, H. H., Kanal, E., Kuhn, M. J., Levin, J. M., Low, R. N., Tanenbaum, L. N., Wang, A.-M., Wong, W., Yuh, W. T. C., Zoarski, G. H.: A clinical comparison of the safety and efficacy of MultiHance (gadobenate dimeglumine) and Omniscan (gadodiamide) in magnetic resonance imaging in patients with central nervous system pathology, 65
Runge, V. M.: Trends in contrast media research: Editorial, 688
Rupp, K.: *see* Leike, J. U.
Ruscalleda, J.: *see* Colosimo, C.
Rymer, R.: *see* Pelage, J.-P.

S

Sachse, A.: *see* Leike, J. U.
Samuels, D.: *see* Metser, U.
Sano, K.: *see* Tadehara, F.
Sasai, K.: *see* Suga, K.
Sayegh, Y., Pochon, S., Vallée, J.-P., Becker, M., Lazeyras, F., Tournier, H., Hyacinthe, R., Fouillet, X., Terrier, F.: Detection of experimental hepatic tumors using long circulating superparamagnetic particles, 15
Schäfer, O.: *see* Winterer, J. T.
Schaller, S.: *see* Wildberger, J. E.
Scheffers, J. M.: *see* Meiners, L. C.
Scheffler, K.: *see* Winterer, J. T.
Scheller, A.: *see* Gillis, A.
Schellhammer, F.: *see* Maintz, D.
Schlag, P. M.: *see* Stroszczynski, C.
Schmermund, A.: *see* Gerber, T. C.
Schmitz-Rode, T.: *see* Meyer, J. M. A.
Schmitz-Rode, T.: *see* Wildberger, J. E.
Schneider, G.: *see* Uder, M.
Schnorr, J.: *see* Kivelitz, D.
Schoenberg, S. O., Londy, F. J., Licato, P., Williams D. M., Wakefield, T., Chenevert, T. L.: Multiphase-multistep gadolinium-enhanced MR angiography of the abdominal aorta and runoff vessels, 283
Scholman, H. J.: *see* Stroszczynski, C.
Schouman-Claeys, E.: *see* Henry-Feugeas, M.-C.
Schreiber, W.: *see* Kauczor, H.-U.
Schuermann, K.: *see* Meyer, J. M. A.
Schuurman, H.-J.: *see* Gaschen, L.
Schweitzer, M. E.: *see* Weishaupt, D.
Seco, C.: *see* Rico, H.
Seitz, J., Strotzer, M., Wild, T., Nitz, W. R., Völk, M., Lenhart, M., Feuerbach, S.: Quantification of blood flow in the carotid arteries: Comparison of Doppler ultrasound and three different phase-contrast magnetic resonance imaging sequences, 642
Sendo, T.: *see* Tominaga, K.
Seo, T.-S., Oh, J. H., Lee, D. H., Ko, Y. T., Yoon, Y.: Radiologic anatomy of the rabbit liver on hepatic venography, arteriography, portography, and cholangiography, 186
Sepponen, R. E.: *see* Markkola, A. T.
Shastri, A.: *see* Bohning, D. E.
Sheedy, P. F.: *see* Gerber, T. C.
Sherry, A. D.: *see* Zhang, S.
Shim, H. J.: *see* Kwak, B. K.
Shirota, K.: *see* Wasaki, M.
Siauve, N.: *see* Lewin, M.
Siegel, R. L.: *see* Snowhill, P. B.
Sijens, P. E., Den Heijer, T., De Leeuw, F. E., De Groot, J. C., Achten, E., Heijboer, R. J. J., Hofman, A., Breteler, M. M. B., Oudkerk, M.: Human brain chemical shifte imaging at age 60 to 90: Analysis of the causes of the observed sex differences in brain metabolites, 597
Silver, F. H.: *see* Snowhill, P. B.
Snowhill, P. B., Nosher, J. L., Seigel, R. L., Silver, F. H.: Characterization of radial forces in Z stents, 521
Spinazzi, A.: *see* Bokor, D.
Spinazzi, A.: *see* Katayama, H.
Spinazzi, A.: *see* Lorusso, V.
Spuentrup, E.: *see* Meyer, J. M. A.
Stäbler, A.: *see* Ertl-Wagner, B. B.
Stargardt, A.: *see* Wildberger, J. E.
Stoel, B. C.: *see* Stolk, J.
Stolk, J., Dirksen, A., Van der Lugt, A., Hutsebaut, J., Mathieu, J., De Ree, J., Reiber, J. H. C., Stoel, B. C.: Repeatability of lung density measurements with low-dose computed tomography in subjects with α-1-antitrypsin deficiency–associated emphysema, 648
Stroszczynski, C., Hosten, N., Puls, R., Nagel, S., Scholman, H. J., Wlodarczyk, W., Oettle, H., Moesta, K. T., Schlag, P. M., Felix, R.: Histopathological correlation to MRI findings during and after laser-induced thermotherapy in a pig pancreas model, 413
Strotzer, M.: *see* Seitz, J.
Strotzer, M., Lenhart, M., Butz, B., Völk, M., Manke, C., Feuerbach, S.: Appearance of vascular stents in computed tomographic angiography: In vitro examination of 14 different stent types, 652
Suga, K., Mikawa, M., Ogasawara, N., Okazaki, H., Matsunaga, N.: Potential of Gd-DTPA-Mannan liposome particles as a pulmonary perfusion MRI contrast agent: An initial animal study, 136
Suga, K., Ogasawara, N., Okazaki, H., Sasai, K., Matsunaga, N.: Functional assessment of canine kidneys after acute vascular occlusion on Gd-DTPA–enhanced dynamic echo-planar MR imaging, 659
Suga, K., Ogasaware, N., Matsunaga, N., Sasai, K.: Perfusion characteristics of oleic acid–Injured canine lung on Gd-DTPA–enhanced dynamic magnetic resonance imaging, 386
Sugimoto, J.: *see* Wasaki, M.
Szapiro, D., Ghaye, B., Willems, V., Zhang, L., Albert, A., Dondelinger, R. F.: Evaluation of CT time-density curves of lower-limb veins, 164

T

Tadehara, F., Imazu, M., Kono, S., Sano, K.: Calibration with currently available low-radiopacity catheters for scaling in digital quantitative coronary angiography, 705
Takasu, J.: *see* Lu, B.
Tanaka, Y.: *see* Kuwatsuru, R.
Tanenbaum, L. N.: *see* Runge, V. M.
Tanimoto, A.: *see* Kuwatsuru, R.
Tanttu, J. I.: *see* Markkola, A. T.
Taroni, P.: *see* Katayama, H.
Taroni, P.: *see* Lorusso, V.
Tate, D. F.: *see* Bigler, E. D.
Taupitz, M.: *see* Kivelitz, D.
Tello, R., Chaoui, A., Hymphrey, M., Fenlon, H., Anastasia-Rubino, L., DeCarvalho, V. L., Yucel, E. K.: Incidence of adrenal masses in patients referred for renal artery stenosis screening MR, 518
Tepe, G., Duda, S. H., Kalinowski, M., Kamenz, J., Brehme, U., Hanke, H., Claussen, C. D., Bares, R., Baumbach, A., Dinkelborg, L. M.: Local intra-arterial drug delivery for prevention of restenosis: Comparison of the efficiency of delivery of different radiopharmaceuticals through a porous catheter, 245
Terrier, F.: *see* Sayegh, Y.
Thelen, M.: *see* Kauczor, H.-U.
Tichkowsky, I.: *see* Idée, J.-M.
Tominaga, K., Kataoka, Y., Sendo, T., Furuta, W., Niizeki, M., Oishi, R.: Contrast medium–induced pulmonary vascular hyperpermeability is aggravated in a rat climacterium model, 131
Toney, G. M., Chavez, H. A., Ibarra, R., Jinkins, J. R.: Acute and subacute physiological and histological studies of the central nervous system after intrathecal gadolinium injection in the anesthetized rat, 33
Tournier, H.: *see* Sayegh, Y.
Tran, L.: *see* Lewin, M.
Trautwein, W.: *see* Uder, M.
Trost, D. W.: *see* Wang, Y.
Troup, C. M.: *see* Wible, J. H., Jr.
Trudell, D.: *see* Ertl-Wagner, B. B.

U

Uder, M., Utz, J., Pahl, M. B., Schneider, G., Kramann, B., Trautwein, W.: Iodinated radiographic contrast media inhibit the capacitative entry of calcium into smooth muscle cells of the swine renal artery, 734
Ueda, M.: *see* Hatakenaka, M.
Utz, J.: *see* Uder, M.

V

Vallée, J.-P.: *see* Sayegh, Y.
Vander Elst, L.: *see* Laurent, S.
Van der Graaf, Y.: *see* Van Heesewijk, H. P. M.
Van der Lugt, A.: *see* Stolk, J.
Van Gessel, R.: *see* Katayama, H.
Van Heesewijk, H. P. M., Casparie, H. W. B. M.,

De Valois, J. C., Van Der Graaf, Y.: Effect of dose levels on the diagnostic performance of a selenium-based digital chest system, 455
Van Huffelen, A. C.: *see* Meiners, L. C.
Van Rijen, P. C.: *see* Meiners, L. C.
Van Vaals, J. J.: *see* Meyer, J. M. A.
Van Veelen, C. W. M.: *see* Meiners, L. C.
Vieth, V., Link, T. M., Lotter, A., Persigehl, T., Newitt, D., Heindel, W., Majumdar, S.: Does the trabecular bone structure depicted by high-resolution MRI of the calcaneus reflect the true bone structure?, 210
Villa, L. F.: *see* Rico, H.
Violas, X.: *see* Wiart, M.
Völk, M.: *see* Seitz, J.
Völk, M.: *see* Strotzer, M.
Von Tengg-Kobligk, H.: *see* Knopp, M. V.

W

Wagner, H. J.: *see* Rauch, D.
Wagner, H.-J., Kalinowski, M., Klose, K.-J., Alfke, H.: The use of gadolinium chelates for x-ray digital subtraction angiography, 257
Wagner, S.: *see* Kivelitz, D.
Wakefield, T.: *see* Schoenberg, S. O.
Wang, A.-M.: *see* Runge, V. M.
Wang, Y.: *see* Wecksell, M. B.
Wang, Y., Winchester, P. A., Khilnani, N. M., Lee, H. M., Watts, R., Trost, D. W., Bush, H. L., Jr., Kent, K. G., Prince, M. R.: Contrast-enhanced peripheral MR angiography from the abdominal aorta to the pedal arteries: Combined dynamic two-dimensional and bolus-chase three-dimensional acquisitions, 170
Wanner, M.: *see* Winterer, J. T.
Wasaki, M., Sugimoto, J., Shirota, K.: Glucose alters the susceptibility of mesangial cells to contrast media, 355
Wassef, M.: *see* Pelage, J.-P.
Watts, R.: *see* Wang, Y.
Wecksell, M. B., Winchester, P. A., Bush, H. L., Jr., Kent, K. C., Prince, M. R., Wang, Y.: Cross-sectional pattern of collateral vessels in patients with superficial femoral artery occlusion, 422
Weishaupt, D., Schweitzer, M. E., Rawool, N. M., Nazarian, L. N., Morrison, W. B., Natale, P. M., Winder, A. A.: Indirect MR arthrography of the knee: Effects of low-intensity ultrasound on the diffusion rate of intravenously administered Gd-DTPA in healthy volunteers, 493
Wessling, J.: *see* Maintz, D.
Wetzler, R.: *see* Kivelitz, D.
Wiart, M., Corot, C., Berthezene, Y., Violas, X., Canet, E.: CT pulmonary angiography with a macromolecular contrast medium: A comparative study *versus* iobitridol in rabbits, 547
Wible, J. H., Jr., Galen, K. P., Wojdyla, J. K.: Cardiovascular effects caused by rapid administration of gadoversetamide injection in anesthetized dogs, 292
Wible, J. H., Jr., Troup, C. M., Hynes, M. R., Galen, K. P., MacDonald, J. R., Barco, S. J., Wojdyla, J. K., Periasamy, M. P., Adams, M. D.: Toxicological assessment of Gadoversetamide injection (OptiMARK®), a new contrast-enhancement agent for use in magnetic resonance imaging, 401
Wild, T.: *see* Seitz, J.
Wildberger, J. E.: *see* Meyer, J. M. A.
Wildberger, J. E., Mahnken, A. H., Schmitz-Rode, T., Flohr, T., Stargardt, A., Haage, P., Schaller, S., Günther, R. W.: Individually adapted examination protocols for reduction of radiation exposure in chest CT, 604
Willems, V.: *see* Szapiro, D.
Williams, D. M.: *see* Schoenberg, S. O.
Winchester, P. A.: *see* Wang, Y.
Winchester, P. A.: *see* Wecksell, M. B.
Winder, A. A.: *see* Weishaupt, D.
Winterer, J. T., Ennker, J., Scheffler, K., Rosendahl, U., Schäfer, O., Wanner, M., Laubenberger, J., Langer, M.: Gadolinium-enhanced elliptically reordered three-dimensional MR angiography in the assessment of hand vascularization before radial artery harvest for coronary artery bypass grafting: first experience, 501
Wlodarczyk, W.: *see* Stroszczynski, C.
Wojdyla, J. K.: *see* Wible, J. H., Jr.
Wong, W.: *see* Runge, V. M.
Wool, C.: *see* Colosimo, C.
Wu, K.: *see* Zhang, S.

Y

Yamamoto, H.: *see* Lu, B.
Yamashita, T.: Evaluation of the microangioarchitecture of tumors by use of monochromatic x-rays, 713
Ye, S. Y.: *see* Kim, H. J.
Yoon, Y.: *see* Seo, T.-S.
Yoshikawa, K.: *see* Kuwatsuru, R.
Yu, J.: *see* Ni, Y.
Yucel, E. K.: *see* Tello, R.
Yuh, W. T. C.: *see* Runge, V. M.

Z

Zhang, J.: *see* Duarte, C. G.
Zhang, L.: *see* Szapiro, D.
Zhang, S., Wu, K., Sherry A. D.: Gd^{3+} complexes with slowly exchanging bound-water molecules may offer advantages in the design of responsive MR agents, 82
Zhuang, N.: *see* Lu, B.
Zoarski, G. H.: *see* Runge, V. M.

Subject Index—Volume 36

A

abdominal aorta
  active MRI stent in, 625
  to pedal arteries, contrast-enhanced peripheral MRA of, 170
  3D-Gd-MRA of, 283
ablation
  radiofrequency, of breast tumors (rabbit model), 480
  small LITT applicators for, 327
active magnetic resonance imaging stent, 625
Ad-SOS (amplitude-dependent speed of bone ultrasound), in rat, 323
adenoma, in renal artery stenosis screening, 518
aging, effects on muscle T2 relaxation time, 692
allograft rejection, renal, power Doppler sonography detecting, 335
α-1-antitrypsin deficiency, in emphysema, lung density measurements and, 648
AMI-HS, hepatocyte-mediated transport of (rat model), 509
Amplatz thrombectomy device, mechanical thrombectomy with
  efficacy of, 204
  for pulmonary embolism, 317
amplitude-dependent speed of bone ultrasound (rat model), 323
AMRIS (active magnetic resonance imaging stent), 625
anastomosis detection, between radial or ulnar artery supply, 501
angiogenesis
  quantification with contrast-enhanced Doppler ultrasound (murine model), 50
  of VX2 tumors, monochromatic X-rays evaluating, 713
angiography
  3D-Gd-enhanced
    of abdominal aorta, 283
    of hand for radial artery harvest, 501
  digital. *see* digital angiography
  hepatic (rabbit model), 186
  pulmonary
    iobitridol and P743 compared in, 547
    thrombus in, thrombectomy with Amplatz device for, 317
angioplasty, transluminal, restenosis prevention and (rabbit model), 245
animal studies. *see specific species*
aorta. *see* abdominal aorta
applicator design, for LITT, 327
arteriography, in liver anatomy (rabbit model), 186
artery(ies)
  anatomy of, and blood supply in uterus (sheep model), 721
  intra-arterial drug delivery for restenosis prevention (rabbit model), 245
  radial, assessment for harvest of, 501
artifacts
  in CT angiography, 652
    of iliac arteries, 699
  intravascular stent, 3D-MRA evaluating, 218
atherosclerosis, local drug delivery with radiopharmaceuticals in (rabbit model), 245
autologous chondrocyte transplants, MRI in, 743

B

bile duct radiography (rabbit model), 186
biliary excretion, of AMI-HS (rat model), 509
biliary tree, 3D-imaging comparisons in, 682
biocompatibility, of P792, 445
biopsy
  Navi-ball for CT in, 299
  stereotactic, in breast, 347
blood-brain barrier, disruption in cerebral fat embolism (cat model), 460
blood flow velocities, in carotid arteries, 642
blood-pool imaging, contrast agents for
  iopromide-carrying liposomes for, 303
  monodisperse iodinated macromolecular, 41
    versus iobitridol, 547
  rapid-clearance, 445
bolus-chase 3D acquisitions, in abdominal aorta, 170
bone
  mineral density ultrasound measurements in (rat model), 323
  structural measurement of, calcaneus specimens for, 210
brain
  chemical shift imaging in, 597
  chronic hydrocephalus of, MRI analysis in, 146
  contrast agents for MRI of, 266
    gadobenate dimeglumine and gadodiamide compared, 65
  edema of, MRI and electron microscopy findings in (cat model), 460
  perfusion imaging in stroke, 378
brain ischemia, induced by MCA occlusion (rat models)
  EEG evaluation of, 1
  MRI of, 561
brain volume, 539
breast
  microcalcifications in, detection of, 726
  stereotactic core biopsy of, 347
  tumors of
    near-infrared optical mammography trials in, 573
    radiofrequency ablation in (rabbit model), 480

C

calcaneus specimens, high-resolution MRI and true bone structure, 210
calcium metabolism, in smooth muscle (porcine model), 734
calibration, of catheter in quantitative coronary angiography, 705
captopril, simultaneous multigated spectral Doppler imaging and, 234
cardiovascular function, effect of gadoversetamide power injection on (canine model), 292
carotid arteries, blood flow velocities in, 642
cat, vasogenic edema in cerebral fat embolism in, 460
catheter calibration, in quantitative coronary angiography, 705
cellular rejection, power Doppler sonography detecting, 335
central nervous system
  MRI of pathology affecting, 65
  physiological and histological studies of (rat model), 33
cerebral blood flow, cerebrospinal fluid dynamics and, 368
cerebral diseases, MRI in, 266
cerebrospinal fluid flow dynamics
  and blood flow relationship, 368
  MRI analysis of, 146
chest CT, reducing radiation exposure in, 604
cholangiography
  contrast-enhanced *versus* single-shot turbo spin-echo, 682
  in liver anatomy (rabbit model), 186
chondrocyte transplants, autologous, MRI in, 743
chromatography profile, of P743, 41
chronic obstructive pulmonary disease, SonoVue™ safety testing in, 104
cine MRI, cerebrospinal fluid dynamics study with, 368
climacterium, contrast medium-induced pulmonary vascular hyperpermeability in (rat model), 131
collateral pattern, in occluded superficial artery, 422
color Doppler ultrasonography, for angiogenesis quantification (murine model), 50
computed tomographic angiography

appearance of vascular stents in, 652
multislice, of iliac arteries, 699
pulmonary, with P743 contrast medium, 547
3D, intravascular, 218
computed tomography
artifacts on, vascular stents causing, 652
blood-pool agents for, 303
of chest, reducing radiation exposure in, 604
for coronary artery screening, 250
directed punctures in, Navi-ball for, 299
electron beam. *see* electron beam tomography
of hepatocellular carcinoma, 487
of liver, 487
after Dy-EOB-DTPA injection, 431
of lower limb veins, 164
multislice, lung density measurements with, 648
single-photon emission, with ^{99m}TC-labeled teboroxime (canine model), 178
computer-aided diagnosis, in contact mammography, 659
contamination, ultrasonography probes and, 554
contrast agents. *see also individual agents*
for blood-pool imaging. *see* blood-pool imaging, contrast agents for
in cerebral disease imaging, clinical dose for, 266
in CT vascular studies, 164
for hepatocellular carcinoma imaging, 487
hepatocyte-mediated transport of (rat model), 509
iodinated. *see* iodinated contrast media
iron oxide-based, for liver tumor detection (rabbit model), 15
liver-specific
Dy-EOB-DTPA, 431
Gd-EOB-DTPA, 9
nephropathy induced by, 355
for optical mammography, 573
paramagnetic, relaxometric protocol for transmetallation assessment, 115
in peripheral MRA, 170
pH-sensitive, 82
pulmonary vascular hyperpermeability induced by (rat model), 131
in rat models
gadobenate dimeglumine *versus* gadobutrol, 561
male hypertensive, kidney toxicity in, 56
MP-2269 and gadophrin use in, 97
neurotolerability of, 1
research trends in, 123, 688
SonoVue™ safety and, 104
for time-density curves of lower-limb veins, 164
for X-ray DSA, 257
contrast enhancement
for angiogenesis quantification (murine model), 50
in MR cholangiography, single-shot turbo spin-echo technique *versus*, 682
versus second-harmonic and pulse-inversion imaging, 582
COPD (chronic obstructive pulmonary disease), SonoVue™ safety testing in, 104
coronary artery imaging
calcification quantification with EBT, 363
in cardiac cycle, 250
cortical lesions, in extratemporal epilepsy, 225
Cragg thrombolytic brush, 204
cross-infection, ultrasonography probes and, 554
CT. *see* computed tomography
CTA. *see* computed tomographic angiography
curved reconstructions, in epileptic cortical lesions, 225

D

dementia, intracranial volume measurement to assess, 539
densitometry, in vitro femur study (rat model), 323
depression, vagus nerve stimulation for, 470
diabetic patients, contrast media-induced nephropathy in, 355
dialysis fistulas, mechanical thrombectomy for, 204
diffusion-weighted MRI, in cortical and subcortical stroke, 155
digital angiography
catheter calibration in, 705
use of Gd chelates for, 257
digital chest system, selenium-based, 455
digitization, of contact mammograms, 659
dog
dynamic SPECT with ^{99m}Tc teboroxime *versus* static thallium-201 in (canine model), 178
gadoversetamide injection in, cardiovascular effects of, 292
kidney assessment with dynamic EPI in, 659
Doppler ultrasonography
in carotid artery blood flow velocity assessment, 642
color contrast-enhanced, for angiogenesis quantification (murine model), 50
for hypertension detection, 234
intrarenal resistive index repeatability and (porcine model), 341
of knee, 493
for renal artery stenosis, 234
renal multigated spectral, 234
for renal transplant evaluation, 335
for vasculopathy detection, 335
DSA (digital subtraction angiography), Gd chelates in, 257
dual-energy X-ray absorptionmetry, for bone mineral content and density determination (rat model), 323
Dy-EOB-DTPA, liver imaging and, 431
dynamic single-photon emission computed tomography (canine model), 178
dysprosium-EOB-DTPA, liver imaging and, 431

E

EBT. *see* electron beam tomography
ECG. *see* electrocardiography
echo-planar imaging, dynamic Gd-DTPA-enhanced, of kidneys (canine model), 659
edema
cerebral, MRI and electron microscopy findings in (cat model), 460
pulmonary, contrast medium-induced (rat model), 131
EEG. *see* electroencephalogram
elderly population, brain metabolism in, 597
electrocardiography, and coronary imaging, 250
improved reproducibility with EBT and, 363
electroencephalogram, and contrast agent neurotolerability in brain ischemia (rat model), 1
electron beam tomography
improving interscan reproducibility with, 363
for myocardial dysfunction measurement, 193
electron microscopy, of brain edema and fat embolism (cat model), 460
electrospray ionization-mass spectrometry, of P743, 41
elimination, of iopromide-carrying liposomes, 303
embolism, cerebral fat, MRI and electron microscopy findings in (cat model), 460
emphysema, MSCT lung density measurements in, 648
endoscopy, virtual, intraluminal contrast enhancement in, 619
endothelin, mediating renal effects of contrast administration (rat model), 56
EPI (echo-planar imaging), dynamic Gd-DTPA-enhanced, of kidneys (canine model), 659

epilepsy
extratemporal, cortical lesion demonstrations in, 225
vagus nerve stimulation for, 470
estradiol, pulmonary vascular hyperpermeability induced by (rat model), 131
extratemporal epilepsy, cortical lesion demonstrations in, 225

F

factor analysis, for perfusion-weighted images, 378
femur, ultrasound in vitro study of (rat model), 323
flip angles, stents and MRA and, 677
flow dynamics, in carotid arteries, measurement techniques compared, 642
fMRI (functional magnetic resonance imaging)
of synchronized vagus nerve stimulation, 470

G

gadobenate dimeglumine
in central nervous system pathology, safety and efficacy of, 65
in colonography, 619
in EEG evaluation (rat model), 1
gadobutrol *versus* (rat model), 561
in intracranial metastases detection, 72
gadobutrol, *versus* gadobenate dimeglumine (rat model), 561
gadodiamide, safety and efficacy of, 65
gadolinium
cardiovascular effects of (canine model), 292
in central nervous system pathology, safety and efficacy of, 65
in MRA
of abdominal aorta and run-off vessels, 283
of hand for radial artery harvest, 501
transmetallation study of, 115
vascular response to (rabbit model), 589
for X-ray DSA, 257
gadolinium-diethylenetriaminepenta-acetic acid. *see* Gd-DTPA
gadopentate, arterial response to (rabbit model), 589
gadopentetate dimeglumine, in CNS studies after intrathecal injection (rat model), 33
gadophrin-2 contrast enhancement, of necrotic liver infarction (rat model), 97
gadoteridol, arterial response to (rabbit model), 589
gadoversetamide injection
cardiovascular effects of (canine model), 292
toxicological assessment of, 401
Gd chelates, for X-ray DSA, 257
Gd-DTPA
aerosolized, for pulmonary ventilation assessment, 240
in enhanced dynamic EPI of kidneys (canine model), 659
mannan-coated liposome particles, pulmonary perfusion and, 136
for MR arthrography of knee, 493
in oleic acid-injured lung imaging (canine model), 386
in transmetallation study, 115
Gd-EOB-DTPA, hepatocyte targeting with, 9
gel permeation chromatography profile, of P743, 41
gene therapy
for hepatocellular carcinoma, 9
for superficial femoral artery occlusion, 422
glucose-altered contrast susceptibility, of mesangial cells, 355
glycosaminoglycan distribution, in autologous chondrocyte transplant patients, 743

H

hand, MRA for radial artery harvest in, 501
harmonic imaging, 582
^{3}He MRI, for volumetry of ventilated airpsaces, 110
head and neck tumors, 531
heart, optimal ECG triggering for coronary artery imaging and, 250
hemodialysis patients, pharmacokinetics and safety of iomeprol in, 309
hemodynamic imaging, of brain tissue in stroke patients, 378
hepatic angiography (rabbit model), 186
hepatobiliary MRI contrast agent, 9
in cholangiography, 682
in colonography, 619
hepatocellular carcinoma
CT of, 487
gene therapy study for, 9
hepatocytes
AMI-HS transport mediated by (rat model), 509
Gd-EOB-DTPA targeting, 9
herpes virus thymidine-kinase gene, 9
high-resolution MRI, for trabecular bone structure, 210
hippocampal volume, 539
histomorphometry, femoral (rat model), 323
hydrocephalous, chronic adult, MRI analysis of, 146
hyperpolarization, 110
hypertension
kidney toxicity studies of radiocontrast media in (rat model), 56
renal artery stenosis screening in, 518
renovascular, simultaneous multigated spectral Doppler imaging for, 234

I

infection, ultrasonography probes and, 554
interventional radiology
Amplatz thrombectomy device and Cragg thrombolytic brush efficacy and, 204
uterine blood supply and (sheep model), 721
intracranial volume, 539
intraluminal contrast enhancement, in virtual endoscopy, 619
intrathecal contrast administration (rat model), 33
iobitridol, P743 *versus*, 547
iodinated contrast media
ionic and nonionic, effects on platelet function, 276
radiographic, calcium metabolism in smooth muscle cells and (porcine model), 734
iodixanol, antiplatelet effect of, 276
iohexol
antiplatelet effect of, 276
versus iomeprol, in myelography and myelo-CT, 22
iomeprol
effects on calcium metabolism in smooth muscle (porcine model), 734
in myelography and myelo-CT, 22
pharmacokinetics and safety of, 309
profile of, 87
ionic contrast media, and platelet function, 276
iopamidol, in myelography and myelo-CT, 22
iopromide-carrying liposomes, for CT blood-pool imaging, 303
iotrolan, in myelography and myelo-CT, 22
ioxaglate, antiplatelet effect of, 276

K

kidney. *see also* renal *entries*
damage to, radiocontrast media-induced (rat model), 56
function, Gd-DTPA-enhanced dynamic EPI assessment of, 659
and intrarenal resistive index repeatability (porcine model), 341
radiocontrast media toxicity in (rat model), 56

renal artery stenosis and. *see* renal artery stenosis
knee, indirect MR arthrography of, 493

L

lanthanide DOTA-tetraamide derivatives, 82
laser-induced thermotherapy
histopathological *versus* MRI correlations in (porcine model), 413
interstitial, evaluation of, 327
laser mammography, optical contrast medium for, 573
liposomes
iopromide-carrying, for CT blood-pool imaging, 303
mannan-coated, for pulmonary perfusion, 136
LITT. *see* laser-induced thermotherapy
liver
angiography in (rabbit model), 186
CT of, 487
after Dy-EOB-DTPA injection, 431
experimental tumors of (rabbit model), 15
necrotic infarction in (rat model), 97
long circulating superparamagnetic particles, for hepatic tumor detection (rabbit model), 15
low-field MRI, in cerebral diseases, contrast agent dosage for, 266
low radiopacity, in quantitative coronary angiography, 705
lung. *see also* pulmonary *entries*
angiography of, iobitridol *versus* P743 in, 547
edema in, contrast medium-induced (rat model), 131
embolism in, thrombectomy with Amplatz device for, 317
injury to, Gd-DTP A-enhanced MRI perfusion characteristics in, 386
MSCT density measurements in, 648
and selenium-based digital chest system, 455
ventilation assessment, aerosolized Gd-DTPA MRI for, 240
lung disease, volumetry of ventilated airspaces in, 110

M

magnetic resonance angiography
artifact free imaging, measurement with, 625
digital subtraction, 170
gadolinium-enhanced
of abdominal aorta and runoff vessels, 283
of hand for radial artery harvest, 501
peripheral, from abdominal aorta to pedal arteries, contrast-enhanced, 170
stents in, varying flip angles with, 677
3D, intravascular stent artifact evaluation in, 218
magnetic resonance arthrography, of knee, 493
magnetic resonance cholangiography, contrast-enhanced, *versus* single-shot turbo spin-echo, 682
magnetic resonance imaging
AMI-HS contrast agent for, biliary excretion of (rat model), 509
of aorta, stent evaluation in, 625
of autologous chondrocyte transplants, 743
of brain
in adult chronic hydrocephalus, 146
chemical shift in, 597
dosage of contrast agents for, 266
edema and fat embolism in (cat model), 460
gadobenate dimeglumine verus gadodiamide for, 65
intracranial volume and dementia and, 539
in carotid artery blood flow velocity, 642
of cerebrospinal fluid dynamics, 368
of colon, 619
contrast agents for. *see* contrast agents; *individual agents*
echo-planar. *see* echo-planar imaging
in extratemporal epilepsy, 225
of head and neck tumors, 531
of hepatic tumors (rabbit model), 15
high-resolution, for trabecular bone structure, 210
in hydrocephalus, 146
of lung
in oleic acid-induced injury, 386
for pulmonary ventilation assessment, 240
in volumetry of ventilated airspaces, 110
in necrotic liver infarction (rat model), 97
rapid-clearance blood-pool agent for, 445
in renal artery stenosis screening, 519
in stroke patients, 155
hemodynamic *versus* dynamic, 378
of thermal effects in LITT, 327
in porcine model, 413
magnetic resonance procedures, health effects and safety of, book review, 500
magnetic resonance spectroscopy
of human brain, chemical shift in, 597
in stroke patients, 155
mammography
for microcalcification detection, 726
near-infrared optical, contrast medium for, 573
mannan-coated liposomes, pulmonary perfusion and, 136
mannitol, and renal failure (rat model), 56
MCA. *see* middle cerebral artery
mechanical thrombectomy, with Amplatz thrombectomy device
efficacy of, 204
for pulmonary embolism, 317
meglumine hydrochloride, membrane closure time and, 276
membrane closure time, effects of ionic and nonionic iodinated low-osmolar contrast media on, 276
mesangial cells, glucose-altered contrast susceptibility of, 355
metabolism
of brain in elderly population, 597
of calcium, in smooth muscle (porcine model), 734
metabolite levels, in cortical and subcortical stroke, 155
metalloporphyrins, 97
microangioarchitecture, of VX2 tumors, 713
microbubble agents, SonoVue™ and, 104
microcalcifications, in breast, 726
middle cerebral artery occlusion, contrast agents in imaging of (rat models)
gadobenate dimeglumine *versus* gadobutrol (rat model), 561
neurotolerability of, 1
monochromatic X-rays, of VX2 tumors, 713
monodisperse iodinated macromolecular blood pool agents, preclinical profiles of, 41
mouse tumor model, contrast-enhanced color Doppler ultrasound in, 50
MP-2269 contrast enhancement, of necrotic liver infarction (rat model), 97
MRA. *see* magnetic resonance angiography
MRI. *see* magnetic resonance imaging
MSCT. *see* multislice computed tomography
MultiHance, 72. *see also* gadobenate dimeglumine
multiple-slice SL-GRE sequences, for head and neck tumor imaging, 531
multislice computed tomography
of iliac arteries, 699
lung density measurements with, 648
muscle, T2 relaxation time in, effects of aging on, 692
myelography, iomeprol *versus* iotrolan in, 22
myocardium

infarction of, EBT measurement in, 193
SPECT assessment of (canine model), 178

N

Navi-ball, for CT-directed punctures, 299
near-infrared optical mammography, contrast medium for, 573
neck and head tumor imaging, 531
necrosis, in liver infarction (rat model), 97
needle deviations, during stereotactic procedures in breast, 347
neoplasms
of breast, stereotactic core biopsy of, 347
of liver. *see* hepatocellular carcinoma
neurotolerability, of contrast agents, EEG evaluation of (rat model), 1
nonionic contrast media, and platelet function, 276
nonproton MRI, 110
nosocomial infection, ultrasonography probes and, 554
nuclear medicine
and ^{99m}TC-labeled teboroxime modeling with dynamic SPECT (canine model), 178
in myocardial dysfunction measurement, 193

O

oleic acid-injured lung, perfusion characteristics of (canine model), 386
Omniscan, 65
online monitoring, of thermal ablation techniques (porcine model), 413
osteoporosis, trabecular bone structure and, 210
ovarian artery (sheep model), 721
oxidative stress, mesangial cells and, 355

P

P743
versus iobitridol, 547
preclinical profile of, 41
P792, in MRI, 445
P41743, preclinical profile of, 41
pancreas, LITT for (porcine model), 413
paramagnetic contrast media, in transmetallation assessment, 115
perfusion imaging
of brain tissue in stroke patients, 378
in lung. *see* pulmonary perfusion
vascular response to gadolinium-containing contrast media in (rabbit model), 589
peripheral vascular disease
3D-MRA for collateral vessel location in, 422
MRA for, 170
PFA-100™ (platelet function analyzer), 276
pH-sensitive contrast agents, 82
pharmacokinetics
of iomeprol, 309
of iopromide-carrying liposomes, 303
of P792, 445
phase imaging, of carotid artery blood flow, 642
pig
calcium metabolism and X-ray contrast media in renal artery of, 734
intrarenal resistive index in, 341
pancreas in, histopathological *versus* MRI correlation in LITT for, 413
platelets, effects of ionic and nonionic iodinated contrast media on, 276
polyethyleneimine Gd-EOB-DTPA, 9
polylysine Gd-EOB-DTPA, 9
portography, in liver anatomy (rabbit model), 186
power Doppler sonography
of knee, 493
for renal transplant evaluation, 335
prostheses, 3D-MRA evaluating, 218
proton relaxometric protocol, for transmetallation assessment, 115
pulmonary function test, and ^{3}He MRI, 110
pulmonary perfusion
Gd-DTP A-enhanced MRI characteristics in lung injury, 386
MRI contrast agent for, 136
pulse-inversion harmonic imaging, 582

Q

quantitative coronary angiography, low radiopacity catheters in, 705

R

rabbit
experimental hepatic tumors in, 15
liver in, radiologic anatomy of, 186
local drug delivery with radiopharmaceuticals in (rabbit model), 245
vascular response to gadolinium-containing MRI contrast media in, 589
VX2 tumors in, radiofrequency ablation of, 480
radial artery harvest, contrast-enhanced 3D-MRA for, 501
radial force, in Z stents, 521
radiation exposure
in chest CT, reduction of, 604
in mammography, 726
radiofrequency ablation, of VX2 tumors (rabbit model), 480
radiopacity, in quantitative coronary angiography, 705
radiopharmaceuticals, local drug delivery with (rabbit model), 245
rapid-clearance blood-pool agent, in MRI, 445
RAS. *see* renal artery stenosis
rat
biliary excretion of AMI-HS in (rat model), 509
central nervous system studies in, 33
climacterium model, induced vascular hyperpermeability in, 131
contrast agents for brain ischemia imaging in
MR agents compared (rat model), 561
neurotolerability of, 1
femur in, ultrasound in vitro study of, 323
hypertensive male, radiocontrast media kidney toxicity in, 56
liver infarction model in, 97
rejection, renal allograft, power Doppler sonography detecting, 335
relaxation times, in SL-GRE sequence measurements, 531
relaxivity, of P792, 445
relaxometry
Gd-EOB-DTPA quantification with, 9
proton protocol for transmetallation assessment, 115
renal artery stenosis
MR screening for, 518
simultaneous multigated spectral Doppler imaging for, 234
renal disorders, iomeprol use in, pharmacokinetics and safety of, 309
renal transplants, power Doppler sonography evaluating, 335
resistive index
intrarenal, repeatability of (porcine model), 341
in renal artery stenosis evaluation, 234
restenosis, prevention of, intra-arterial drug delivery for (rabbit model), 245
Rotterdam Study, 597

S

safety testing
of iomeprol, 309
of SonoVue™, 104
scintigraphy

in local drug delivery with radiopharmaceuticals, 234
renal artery stenosis and, 234
segmentation algorithm, cerebrospinal fluid, 368
selenium-based digital chest system, evaluation of, 455
sex differences, in brain metabolites, 597
SF_6 (sulfur hexafluoride), 104
sheep, uterine artery embolization in, 721
single-photon emission computed tomography, ^{99m}Tc-labeled teboroxime in (canine model), 178
single-shot turbo spin-echo magnetic resonance cholangiography, 682
SL-GRE (spin lock gradient-echo) sequences, multiple-slice, 531
smooth muscle, calcium metabolism and X-ray contrast media in (porcine model), 734
SonoVue™, clinical safety of, 104
SPECT (single-photon emission computed tomography), ^{99m}TC-labeled teboroxime in (canine model), 178
spin lock gradient-echo sequences, multiple-slice, 531
stability, of MRI paramagnetic contrast media, protocol for assessment, 115
stainless steel Z-stents, 521
stents
on active artifact free MRI, 625
in CTA in vitro examination, 652
of iliac arteries, 699
intravascular artifacts and, 3D-MRA evaluating, 218
MRA, flip angles and, 677
vascular Z model, radial forces in, 521
stereotactic core biopsy, in breast, 347
stroke
cortical and subcortical, 155
perfusion MRI of infarcted and noninfarcted brain tissue in, 378
sulfur hexafluoride, 104
superficial femoral artery occlusion, collateral pattern in, 422
superparamagnetic particles, long circulating, for hepatic tumor detection (rabbit model), 15
swine. *see* pig
synchronization, of vagus nerve stimulation, 470
synchrotron radiation, for VX2 tumor evaluation, 713

T

T2 relaxation time, effects of aging on, 692
teboroxime, ^{99m}Tc-labeled, in SPECT (canine model), 178
temperature monitoring, in LITT (porcine model), 413
temporal horn volume, 539
temporal window, in pulmonary angiography, 547
texture analysis, in trabecular bone structure, 210
thallium 201, for myocardial perfusion measurement (canine model), 178
thermotherapy, laser-induced. *see* laser-induced thermotherapy
three-dimensional imaging
in angiography
of abdominal aorta and runoff vessels, 283
of occluded superficial femoral artery, 422
in cholangiography, 682
three-dimensional surface rendering, in epileptic cortical lesions, 225
thrombectomy, mechanical, with Amplatz thrombectomy device
efficacy of, 204
for pulmonary embolism, 317
time-density curves, computed tomographic, of lower-limb veins, 164
toxicity, of contrast agents in X-ray DSA (rat model), 257
trabecular bone
high-resolution MRI for, 210
ultrasound study of (rat model), 323
transluminal angioplasty, restenosis prevention and (rabbit model), 245
transmetallation assessment, proton relaxometric protocol for, 115
transplants
autologous chondrocyte, MRI in, 743
renal, power Doppler sonography evaluating, 335
triangular fibrocartilage, in wrist, lateral projection radiographs of, 612
tumor imaging
for angiogenesis quantification in (murine model), 50
in breast. *see* breast, tumors of
experimental hepatic (rabbit model), 15
in head and neck, 531
VX2 tumors. *see* VX2 tumors

U

ulna, in lateral projection radiograph of wrist, 612
ultrasound
contrast agents for. *see* contrast agents
Doppler techniques. *See* Doppler ultrasonography
of femur (rat model), 323
probes used in, nosocomial and cross-infection with, 554
techniques compared, 582
uterus, arterial blood supply to (sheep model), 721

V

vagus nerve stimulation, synchronized fMRI for, 470
vascular smooth muscle, calcium metabolism in (porcine model), 734
vascular studies
of lower-limb veins, CT time-density curves, 164
of response to contrast enhancement
in CT, hepatocellular carcinoma and, 487
in MRI of hand, for radial artery graft, 501 rabbit model, 589
vasculature
diseases involving
location of collateral vessels with 3D-MRAs, 422
MR angiography for, 170
power Doppler sonography detecting, 335
occlusion in kidney, dynamic EPI assessment of (canine model), 659
stents in. *see* stents
vasorelaxation, X-ray contrast media effects on (porcine model), 734
vector, nonviral, for gene therapy, 9
veins, lower-limb, CT time-density curves in, 164
virtual endoscopy, intraluminal contrast enhancement in, 619
VX2 tumors
in breast
near-infrared optical mammography trials in, 573
radiofrequency ablation of (rabbit model), 480
hepatic (rabbit model), 15
monochromatic X-rays evaluating, 713

W

water diffusion coefficients, in cortical and subcortical stroke, 155
water exchange, Gd^{3+} complexes and, 82
waveforms, cerebrospinal fluid flow, 146
wrist trauma, lateral projection radiographs in, 612

X

X-ray absorptionmetry, dual-energy, for bone mineral content and density determination (rat model), 323
X-ray DSA, use of Gd chelates for, 257
X-rays, monochromatic, of VX2 tumors, 713

Z

Z-stent, radial forces in, 521